Contents

Aker, Ch.L.: Spatial and Temporal Dispersion Patterns of Pollinators and their Relationship to the Flowering Strategy of *Yucca whipplei* (Agavaceae) 243
Andrew, N.L., Choat, J.H.: The Influence of Predation and Conspecific Adults on the Abundance of Juvenile *Evechinus chloroticus* (Echinoidea: Echinometridae) 80
Arnold, C., s. Fry, B 200
Bates, L.M., Hall, A.E.: Diurnal and Seasonal Responses of Stomatal Conductance for Cowpea Plants Subjected to Different Levels of Environmental Drought 304
Bayliss, D.E.: Switching by *Lepsiella vinosa* (Gastropoda) in South Australian mangroves 212
Bazzaz, F.A., Carlson R.W., Photosynthetic Acclimation to Variability in the Light Environment of Early and Late Successional Plants 313
Bazzaz, F.A., s. Carlson, R.W. 50
Bazzaz, F.A., s. Drew, A.P. 76
Berglund, A.: Coexistence, Size Overlap and Population Regulation in Tidal vs. Non-Tidal *Palaemon* Prawns . . . 1
Bunce, J.A.: Low Humidity Effects on Photosynthesis in Single Leaves of C_4 Plants 233
Cairns, S.C.: Growth Energetics in Relation to Temperature of the Larvae of *Rhopaea verreauxi* (Coleoptera: Scarabaeidae) 32
Carlson, R.W., Bazzaz, F.A.: Photosynthetic and Growth Response to Fumigation with SO_2 at Elevated CO_2 for C_3 and C_4 Plants 50
Carlson, R.W., s. Bazzaz, F.A. 313
Caughley, G.: Vegetation Complexity and the Dynamics of Modelled Grazing Systems 309
Choat, J.H., Kingett, P.D.: The Influence of Fish Predation on the Abundance Cycles of an Algal Turf Invertebrate Fauna 88
Choat, J.H., s. Andrew, N.L. 80
Coleman, D.C., s. Hays, R., et al. 260
Coughenour, M.B., s. Wallace, L.L., et al. 68
Courtney, St. P.: Coevolution of Pierid Butterflies and Their Cruciferous Foodplants V. Habitat Selection, Community Structure and Speciation 101
Delwiche, C.C., s. Virginia, R.A. 317
Denslow, J.S., Moermond, T.C.: The Effect of Accessibility on Rates of Fruit Removal from Tropical Shrubs: An Experimental Study 170
Dimmick, J.F., s. Lemly, A.D. 359
Downes, B.J., s. Keough, M.J. 348
Drew, A.P., Bazzaz, F.A.: Effect of Night Temperature on Daytime Stomatal Conductance in Early and Late Successional Plants 76
Ehleringer, J.R., s. Forseth, I.N. 41
Ehrlich, A.H., s. Ehrlich, P.R. 138
Ehrlich, P.R., Ehrlich, A.H.: Social Behavior of Butterfly and Surgeonfishes on Coral Reefs: Some Mirror Experiments (Short Communication) 138
Ellis, B.A., Kummerow, J.: Temperature Effect on Growth Rates of *Eriophorum Vaginatum* Roots 136
Enright, J.T.: Sleep Movements of Leaves: In Defense of Darwin's Interpretation 253
Forseth, I.N., Ehleringer, J.R.: Ecophysiology of Two Solar Tracking Desert Winter Annuals II. Leaf Movements, Water Relations and Microclimate 41
Fry, B., Arnold, C.: Rapid $^{13}C/^{12}C$ Turnover During Growth of Brown Shrimp (*Penaeus aztecus*) 200
Fuentes, E.R., s. Simonetti, J.A. 55
Gandar, M.V.: The Dynamics and Trophic Ecology of Grasshoppers (Acridoidea) in a South African Savanna . . . 370
Gentry, J.B., Whitford, W.G.: The Relationship Between Wood Litter Infall and Relative Abundance and Feeding Activity of Subterranean Termites *Reticulitermes spp.* in Three Southeastern Coastal Plain Habitats 63
Green, T.G.A., Snelgar, W.P.: A Comparison of Photosynthesis in Two Thalloid Liverworts 275
Häsler, R.: Net Photosynthesis and Transpiration of *Pinus montana* on East and North Facing Slopes at Alpine Timberline 14
Hall, A.E., s. Bates, L.M. 304
Hays, R. Reid, C.P.P., John, T.V.St., Coleman, D.C.: Effects of Nitrogen and Phosphorus on Blue Grama Growth and Mycorrhizal Infection 260
Heip, C., s. Herman, P.M.J. 300
Henderson, G.S., s. Johnson, D.W., et al. 141
Herman, P.M.J., Heip, C.: Growth and Respiration of *Cyprideis torosa* Jones 1850 (Crustacea Ostracoda) 300
Hopkin, S.P., Martin, M.H.: The Distribution of Zinc, Cadmium, Lead and Copper Within the Woodlouse *Oniscus asellus* (Crustacea, Isopoda) 227
Huff, D.D., s. Johnson, D.W., et al. 141
Jensen, Th.S.: Seed Production and Outbreaks of Non-Cyclic Rodent Populations in Deciduous Forests 184
John, T.V.St., s. Hays, R., et al. 260
Johnson, D.W., Henderson, G.S., Huff, D.D., Lindberg, S.E., Richter, D.D., Shriner, D.S., Todd, D.E., Turner, J.: Cycling of Organic and Inorganic Sulphur in a Chestnut Oak Forest 141
Karlsson, St., s. Kjellberg, B., et al. 10
Kenworthy, W.J., Zieman, J.C., Thayer, G.W.: Evidence for the Influence of Seagrasses on the Benthic Nitrogen Cycle in a Coastal Plain Estuary Near Beaufort, North Carolina (USA) 152
Keough, M.J., Downes, B.J.: Recruitment of Marine Invertebrates: the Role of Active Larval Choices and Early Mortality 348
Kerstensson, I., s. Kjellberg, B., et al. 10
Kingett, P.D., s. Choat, J.H. 88
Kjellberg, B., Karlsson, St., Kerstensson, I.: Effects of Heliotropic Movements of Flowers of *Dryas octopetala* L. on Gynoecium Temperature and Seed Development . . . 10
Kummerow, J., s. Ellis, B.A. 136
Lemly, A.D., Dimmick, J.F.: Phytoplankton Communities in the Littoral Zone of Lakes: Observations on Structure and Dynamics in Oligotrophic and Eutrophic Systems 359
Leverich, W.J., s. Schaal, B.A. 149
Lindberg, S.E., s. Johnson, D.W., et al. 141
Lomolino, M.V.: Species-Area and Species-Distance Relationships of Terrestrial Mammals in the Thousand Island Region 72
Maddison, W.P., s. Thomson, J.D., et al. 326
Mahall, B.E., Schlesinger, W.H.: Effects of Irradiance on Growth, Photosynthesis, and Water Use Efficiency of Seedlings of the Chaparral Shrub, *Ceanothus megacarpus* 291
Martin, M.H., s. Hopkin, S.P. 227
Martin, M.M., s. Stadler Martin, J. 205
McCormack, S.M.D.: The Maintenance of Shore-Level Size Gradients in an Intertidal Snail (*Littorina sitkana*) . . . 177
McNaughton, S.J., s. Wallace, L.L., et al. 68
Meinzer, F.C.: The Effect of Vapor Pressure on Stomatal Control of Gas Exchange in Douglas Fir (*Pseudotsuga menziesii*) Saplings 236
Meinzer, F.C.: The Effect of Light on Stomatal Control of Gas Exchange in Douglas Fir (Pseudotsuga menziesii) Saplings 270
Miller, J.C.: Life History of Insect Parasitoids Involved in Successful Multiparasitism 8
Moermond, T.C., s. Denslow, J.S. 170
Monson, R.K., Williams, G.J., III: A Correlation Between

Photosynthetic Temperature Adaptation and Seasonal Phenology Patterns in the Shortgrass Prairie 58
Nordhorn-Richter, G.: Bryophytes with Asexual Reproduction – Their Ability to Succeed in an Industrial Area . . 398
Plowright, R.C., s. Thomson, J.D., et al. 326
Price, M.V., Waser, N.M.: Experimental Studies of Pollen Carryover: Hummingbirds and *Ipomopsis aggregata* . . 353
Quinn, J.F.: Competitive Hierarchies in Marine Benthic Communities 129
Race, M.S.: Competitive Displacement and Predation Between Introduced and Native Mud Snails 337
Reid, C.P.P., s. Hays, R., et al. 260
Richter, D.D., s. Johnson, D.W., et al. 141
Riehl, T.E., Ungar, I.A.: Growth and Ion Accumulation in *Salicornia europaea* Under Saline Field Conditions . . . 193
Robles, C.: Disturbance and Predation in an Assemblage of Herbivorous Diptera and Algae on Rocky Shores . . . 23
Schaal, B.A., Leverich, W.J.: Survivorship Patterns in an Annual Plant Community 149
Schiel, D.R.: Selective Feeding by the Echinoid, *Evechinus chloroticus*, and the Removal of Plants from Subtidal Algal Stands in Northern New Zealand 379
Schiemer, F.: Food Dependence and Energetics of Freeliving Nematodes I. Respiration, Growth and Reproduction of *Caenorhabditis briggsae* (Nematoda) at Different Levels of Food Supply 108
Schiemer, F.: Food Dependence and Energetics of Freeliving Nematodes II. Life History Parameters of *Caenorhabditis briggsae* (Nematoda) at Different Levels of Food Supply 122
Schlesinger, W.H., s. Mahall, B.E. 291
Shachak, M., s. Yair, A. 389
Shriner, D.S., s. Johnson, D.W., et al. 141
Simonetti, J.A., Fuentes, E.R.: Microhabitat Use by European Rabbits (*Oryctolagus cuniculus*) in Central Chile: Are Adult and Juvenile Patterns the Same? 55
Slagsvold, T.: Clutch Size Variation in Passerine Birds: The Nest Predation Hypothesis 159
Snelgar, W.P., s. Green, T.G.A. 275
Ssemakula, J., s. Western, D. 281
Stadler Martin, J., Martin, M.M.: Tannin Assays in Ecological Studies: Lack of Correlation Between Phenolics, Proanthocyanidins and Protein-Precipitating Constituents in Mature Foliage of Six Oak Species 205
Thayer, G.W., s. Kenworthy, W.J., et al. 152
Thomson, J.D., Maddison, W.P., Plowright, R.C.: Behavior of Bumble Bee Pollinators of *Aralia hispida* Vent. (Araliaceae) 326
Todd, D.E., s. Johnson, D.W., et al. 141
Turner, J., s. Johnson, D.W., et al. 141
Ungar, I.A., s. Riehl, T.E. 193
Virginia, R.A., Delwiche, C.C.: Natural ^{15}N Abundance of Presumed N_2-Fixing and Non-N_2-Fixing Plants from Selected Ecosystems 317
Wallace, L.L., McNaughton, S.J., Coughenour, M.B.: The Effects of Clipping and Fertilization on Nitrogen Nutrition and Allocation by Mycorrhizal and Nonmycorrhizal *Planicum coloratum* L., a C_4 Grass 68
Waser, N.M., s. Price, M.V. 353
Western, D., Ssemakula, J.: Life History Patterns in Birds and Mammals and Their Evolutionary Interpretation 281
Whitford, W.G., s. Gentry, J.B. 63
Williams, G.J., III, s. Monson, R.K. 58
Woodward, B.D.: Tadpole Competition in a Desert Anuran Community 96
Wright, S.J.: Competition, Differential Mortality, and Their Effect on the Spatial Pattern of a Desert Perennial, *Eriogonum inflatum* Torr and Frem (Polygonaceae) 266
Yair, A., Shachak, M.: A Case Study of Energy, Water and Soil Flow Chains in an Arid Ecosystem 389
Zieman, J.C., s. Kenworthy, W.J., et al. 152

Indexed in Current Contents